

CLAIMS

What is claimed is:

1. A method of encrypting and transmitting voice and data
5 together in a secure communication system, said method comprising:
packetizing voice data into a voice-over-IP (VoIP) data
stream;

encrypting said VoIP data stream through a Type 1
encryption unit into an encrypted data stream; and
10 encapsulating said encrypted data stream in IP packets for
transmission.

2. The method of encrypting and transmitting voice and
data together in a secure communication system according to claim 1,
15 further comprising:

routing said VoIP data stream with packets from other IP
data streams;

wherein voice and data are encrypted by a single Type 1
encryption unit.

20 3. The method of encrypting and transmitting voice and
data together in a secure communication system according to claim 2,
wherein:

said routing is performed by a voice-enabled router.

25 4. The method of encrypting and transmitting voice and
data together in a secure communication system according to claim 1,
wherein:

said Type 1 encryption unit is a KIV-type encryption unit.

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5. The method of encrypting and transmitting voice and data together in a secure communication system according to claim 4, wherein:

said KIV-type encryption unit is a KIV-7 encryption unit.

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6. The method of encrypting and transmitting voice and data together in a secure communication system according to claim 2, wherein:

said Type 1 encryption unit is a KIV-type encryption unit.

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7. The method of encrypting and transmitting voice and data together in a secure communication system according to claim 6, wherein:

said KIV-type encryption unit is a KIV-7 encryption unit.

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8. Apparatus for encrypting and transmitting voice and data together in a secure communication system, said method comprising:

means for packetizing voice data into a voice-over-IP (VoIP) data stream;

20 means for encrypting said VoIP data stream through a Type 1 encryption unit into an encrypted data stream; and

means for encapsulating said encrypted data stream in IP packets for transmission.

9. The apparatus for encrypting and transmitting voice and data together in a secure communication system according to claim 8, further comprising:

5 means for routing said VoIP data stream with packets from other IP data streams;

wherein voice and data are encrypted by a single Type 1 encryption unit.

10 10. The apparatus for encrypting and transmitting voice and data together in a secure communication system according to claim 9, wherein said means for routing comprises:

a voice-enabled router.

15 11. The apparatus for encrypting and transmitting voice and data together in a secure communication system according to claim 8, wherein:

said Type 1 encryption unit is a KIV-type encryption unit.

20 12. The apparatus for encrypting and transmitting voice and data together in a secure communication system according to claim 11, wherein:

said KIV-type encryption unit is a KIV-7 encryption unit.

25 13. The apparatus for encrypting and transmitting voice and data together in a secure communication system according to claim 9, wherein:

said Type 1 encryption unit is a KIV-type encryption unit.

30 14. The apparatus for encrypting and transmitting voice and data together in a secure communication system according to claim 13, wherein:

said KIV-type encryption unit is a KIV-7 encryption unit.